

APPLICANT'S ART CITATION (Use several sheets if necessary)	Application <b>10/686,191</b>	OFGS File No. <b>P/3474-86</b>
	Applicant <b>David L. Hagen et al.</b>	
	Filing Date <b>October 15, 2003</b>	Group Art Unit <del>3753</del> <b>1723</b>

## U.S. PATENT DOCUMENTS (not submitted for applications filed after 6/30/03)

Examiner Initial	Document Number	Date MM-YYYY	Name	Class	Sub-class	Filing Date If Appropriate
/T.S./	US-4,478,553	10-1984	LEIBOWITZ ET AL.	416	97	
	US-4,714,414	12-1987	MILLER	418	11	
	US-5,722,241	03-1998	HUBER	60	728	
	US-5,930,990	08-1999	ZACHERY ET AL.	60	39.53	
	US-6,263,661	07-2001	VAN DER BURGT ET AL.	60	39.17	
	US-6,398,518	06-2002	INGISTOV	417	244	
/T.S./	US-6,453,659	09-2002	VAN LIERE ET AL.	60	39.53	
	US-					
	US-					

## FOREIGN PATENT DOCUMENTS

	Document Number	Date MM-YYYY	Country	Class	Sub-class	Translation	
						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


Examiner <b>/Tony Soohoo/</b>	Date Considered <b>11/28/2007</b>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,191
	APPLICANT David L. Hegen et al.	
	FILING DATE October 15, 2003	GROUP <del>3466</del> 1797

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
T.S./	1	4,273,527	06/16/81	Meenan		
	2	5,690,039	11/25/97	Monro et al.		
	3	6,158,962	12/12/00	Lee et al.		
	4	6,183,240	02/06/01	Dobbeling et al.		

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
T.S./	5	Agren, N., "Advanced Gas Turbine Cycles with Water-Air Mixtures as Working Fluid", Doctoral Thesis, Department of Chemical Engineering and Technology, Energy Processes, Royal Institute of Technology, Stockholm, 2000.
	6	Agren et al., "First Experiments on an Evaporative Gas Turbine Pilot Power Plant - Water Circuit Chemistry and Humidification Evaluation", The American Society of Mechanical Engineers, 2000.
	7	Aagren et al., "New Humidification Concept for Evaporative Gas Turbine Cycles Applied to a Modern Aeroderivative Gas Turbine", Proceedings for the ASME, AES-Vol. 37, 1997.
	8	Lindquist, T., "Evaluation, Experience and Potential for Gas Turbine Based Cycles with Humidification", Doctoral Thesis, Division of Thermal Power Engineering, Dept. of Heat and Power Engineering, Lund University, Sweden, Sept. 6, 2002, p. 85.

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EXAMINER	/Tony Soohoo/	DATE CONSIDEROED	11/28/2007
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PTO/SB/08 Equivalent

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No. 10/686,191

Filing Date October 15, 2003

First Named Inventor David L. Hagen et al.

Art Unit 3753 1797

Examiner Unknown Soohoo

Attorney Docket No. VAST.001CP2

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
T.S./	1.	4,259,837	04/1981	Russell et al.	
	2.	5,255,505	10/1993	Cloyd et al.	
	3.	5,357,741	10/1994	Talabisco et al.	
	4.	5,617,719	04/1997	Ginter	
	5.	5,784,875	07/1998	Statler	
	6.	6,284,666	09/2001	Naeem et al.	

## FOREIGN PATENT DOCUMENTS


Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>

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Examiner Signature	/Tony Soohoo/	Date Considered	11/28/2007
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	FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/888,191
	APPLICANT David L. Hagen et al.		
	FILING DATE October 15, 2003	GROUP 1797	

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U.S. PATENT DOCUMENTS							
* Century year is 19 except where re-written							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
/T.S./	1	2,678,531	05/18/54	Miller			
	2	2,678,532	05/18/54	Miller			
	3	2,869,324	01/20/59	Foote			
	4	3,238,719	03/08/66	Harslem			
	5	3,651,641	03/28/72	Ginter			
	6	3,657,879	04/25/72	Ewbank et al.			
	7	3,696,795	10/10/72	Smith et al.			
	8	4,128,994	12/12/78	Cheng			
	9	4,248,039	02/03/81	Cheng			
	10	4,483,137	11/20/84	Faulkner et al.			
	11	4,491,093	01/01/85	Hoekstra			
	12	4,509,324	04/09/85	Urbach et al.			
	13	4,522,024	06/11/85	Zaugg			
	14	4,753,068	06/28/88	El-Masri			
	15	4,841,721	06/27/89	Patton et al.			
	16	4,928,478	05/29/90	Maslak			
	17	5,050,375	09/24/91	Dickinson			
	18	5,175,995	01/05/93	Pak et al.			
	19	5,271,215	12/21/93	Guillet			
	20	5,617,716	04/08/97	Schreiber			
	21	5,627,719	05/06/97	Gaston			
	22	5,680,764	10/28/97	Viteri			
	23	5,743,080	04/28/98	Ginter			
	24	5,771,678	06/30/98	Shouman			
	25	6,042,090	03/28/00	Zablonier et al.			03/2000
	26	6,089,024	07/18/00	Hatanaka			07/2000
	27	6,289,666	09/18/01	Ginter			09/2001

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/666,191
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT David L. Hagen et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE October 15, 2003	GROUP 3933 797

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (# APPROPRIATE)
T.S.J.	28	6,293,086	09/25/01	Reynolds			09/2001
	29	6,370,862	04/16/02	Cheng			04/2002
	30	6,418,724	07/16/02	Cheng			07/2002
	31	6,564,556	06/20/03	Ginter			05/2003

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
				* Century year is 19 except where re-written			YES NO
T.S.J.	32	DE 37 28 557 A	03/09/89	Germany			
	33	EP 0444013 A1	08/28/91	Europe			
	34	EP 0446379 A1	09/18/91	Europe			
	35	EP 0505263 A1	09/23/92	Europe			
	36	EP 0761298 A2	03/12/97	Europe			
	37	EP 1319435 A2	06/18/03	Europe			
	38	FR 2 043 074	02/12/71	France			
	39	GB 1 142 956	02/12/69	United Kingdom			
	40	WO 9510009	04/13/95	PCT			
	41	WO 0128648	04/26/01	PCT			04/2001
	42	WO 0190548 A1	11/29/01	PCT			11/2001
	43	IT 1256878	12/27/95	Italy			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
T.S.J.	44	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.
	45	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.
	46	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.
	47	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,181
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT David L. Hagen et al.	
		FILING DATE October 15, 2003	GROUP 3793 1797

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
T.S.	48 Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).
	49 Malecki et al., "Application of and Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution - Part 1: Description and Validation of the Analysis Tool", 2001.
	50 Pavri et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.
	51 Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO <sub>2</sub> ) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.

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